

ABSTRACT

In a method for determining the exhaust-gas recirculation quantity for an internal combustion engine having exhaust-gas recirculation, a basic quantity of a gas mixture inducted into the engine combustion chamber(s) is determined in advance, as well as a basic pressure and/or a basic temperature of the gas mixture for at least one predefinable basic state of the combustion engine at deactivated exhaust-gas recirculation is ascertained. With the engine running, pressure and/or temperature of the inducted gas mixture are/is then determined for the current engine state at activated exhaust-gas recirculation. The currently inducted gas-mixture quantity as the basic quantity is then corrected by at least the ratio of current pressure to basic pressure of the gas mixture and/or the ratio of basic temperature to current temperature of the gas mixture. Furthermore, a fresh-gas portion of the inducted gas mixture for the current engine state is ascertained, whereupon the current exhaust-gas recirculation quantity is determined on the basis of the difference between the ascertained current gas-mixture quantity and the ascertained fresh-gas portion. The method may used in connection with diesel engines of motor vehicles, for example.